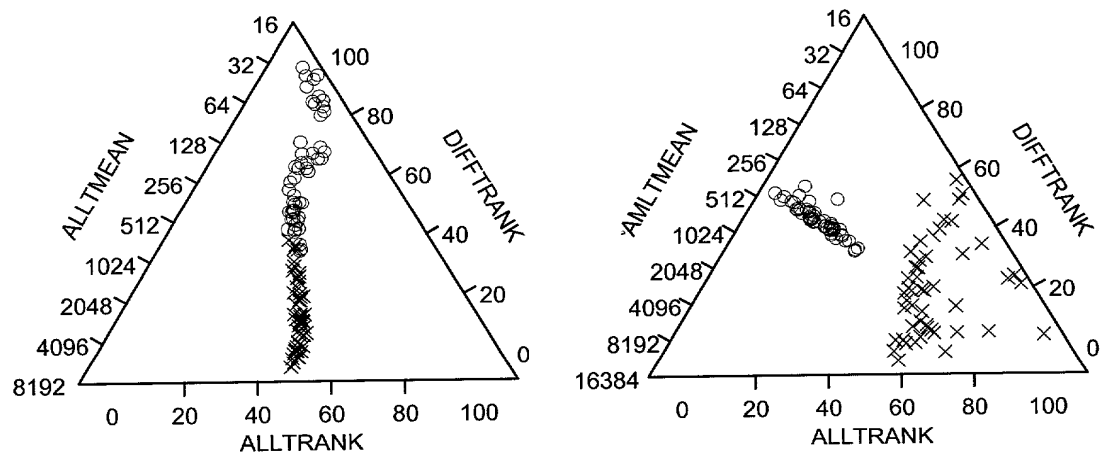


Figure 1

ALL vs. AML Model: Training Set
Model: $x = \text{IndexRank}$, $Y = \text{DeltaRank}$



ALL Training Set Pattern

Mean of $n=27$

AML Training Set Pattern

Mean of $n=11$

Symbol Key (each symbol represents 1 gene):

Circle: highest expression in AML

Cross: highest expression in ALL

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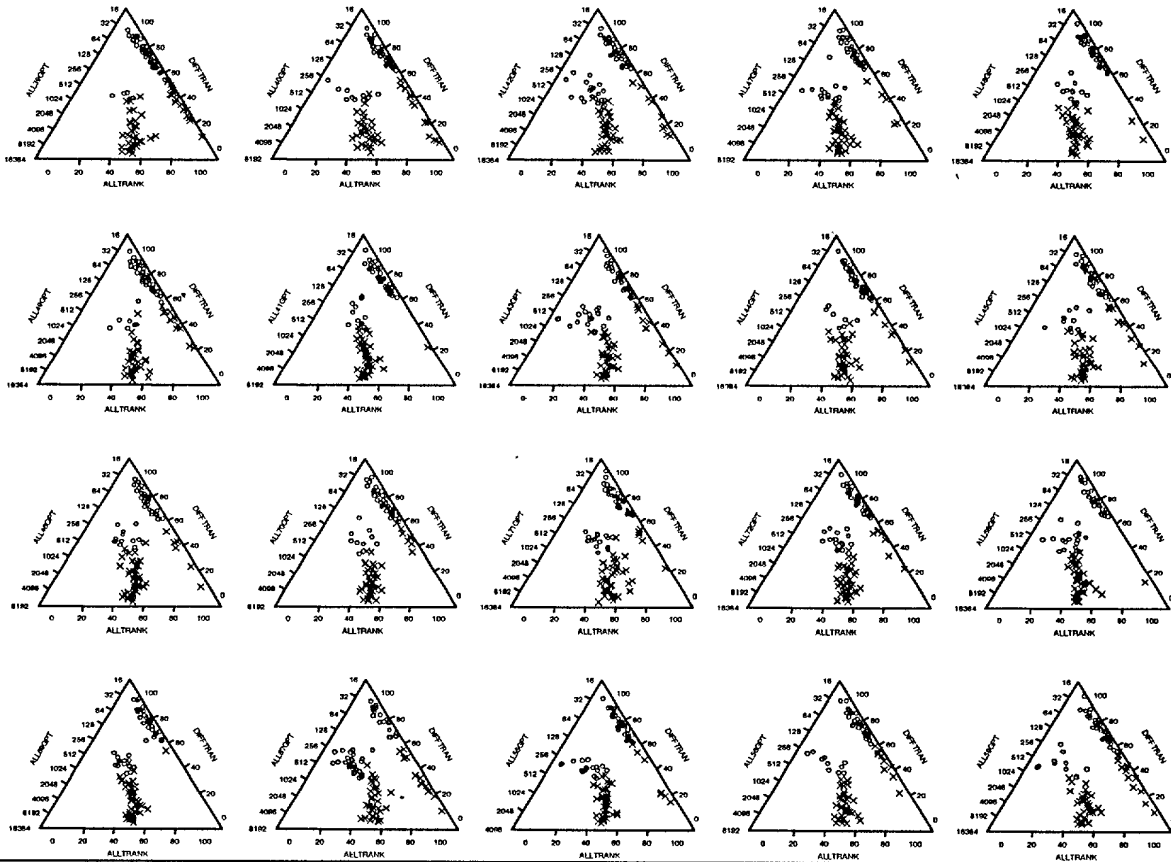
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Figure 2

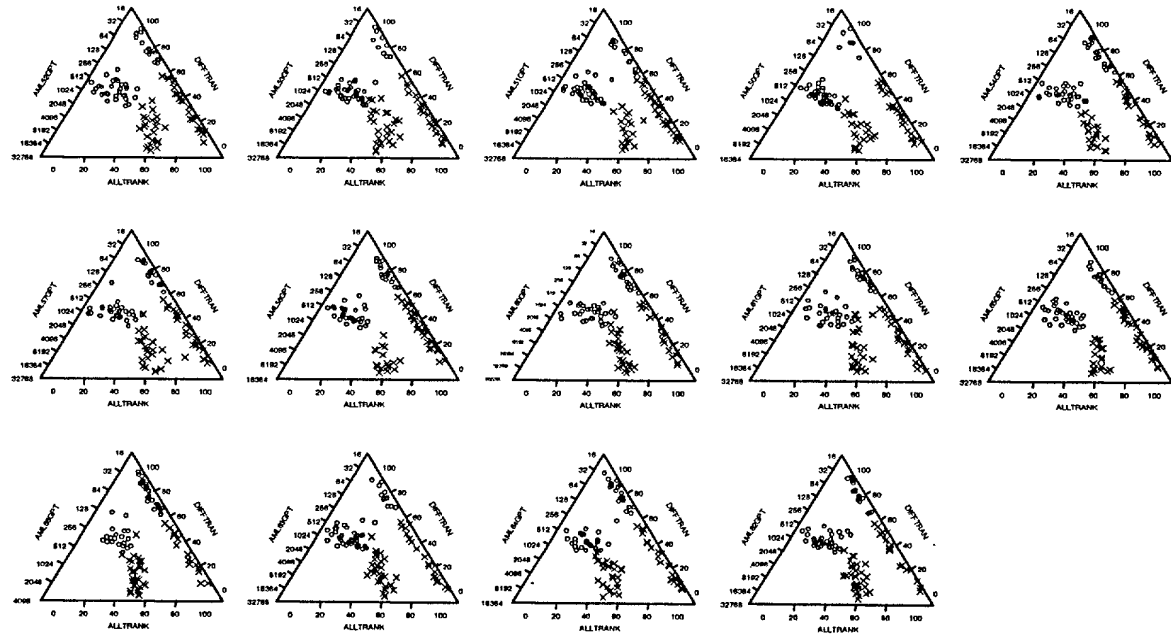
ALL vs. AML New Test Cases
Model: $x = \text{IndexRank}$, $Y = \text{DeltaRank}$

FILE # 4504660

ALL Test Cases

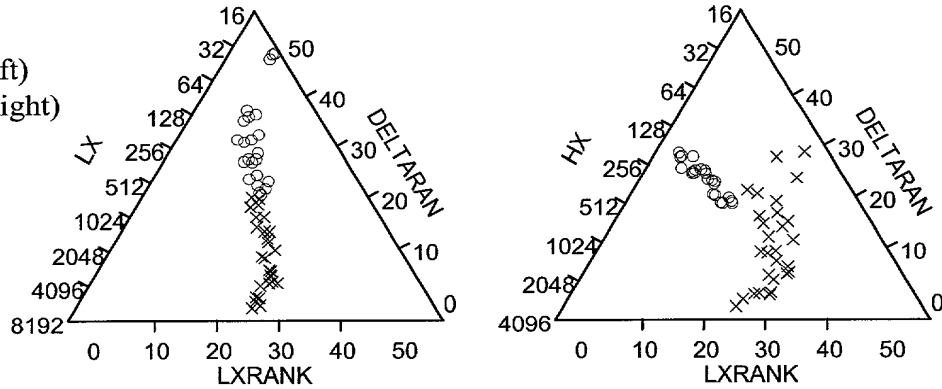


AML Test Cases

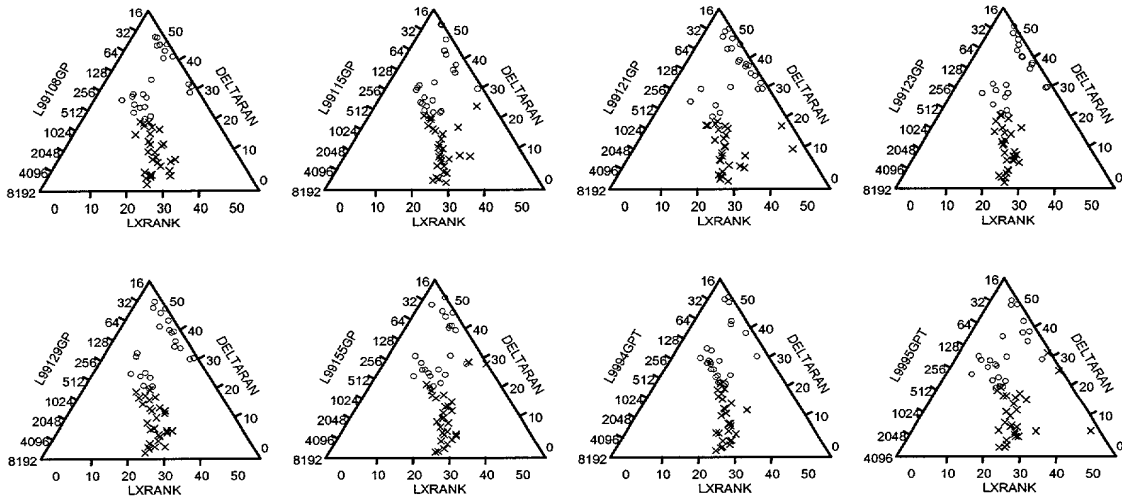


Breast Cancers: L-Type vs. H-TypeModel:
x=IndexRank, Y=Delta Rank

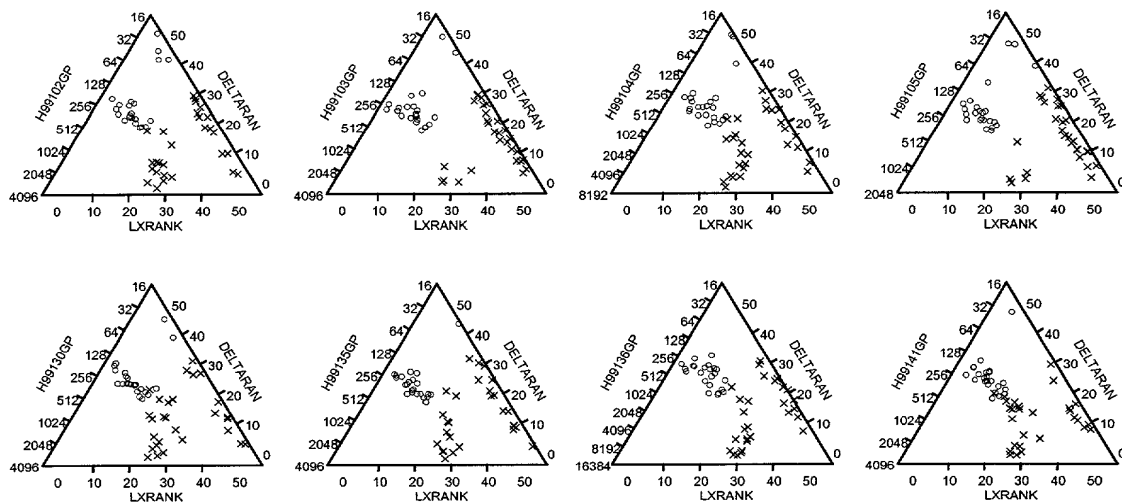
H Tumor Average (Right)



L-Type Training Examples



H-Type Training Examples



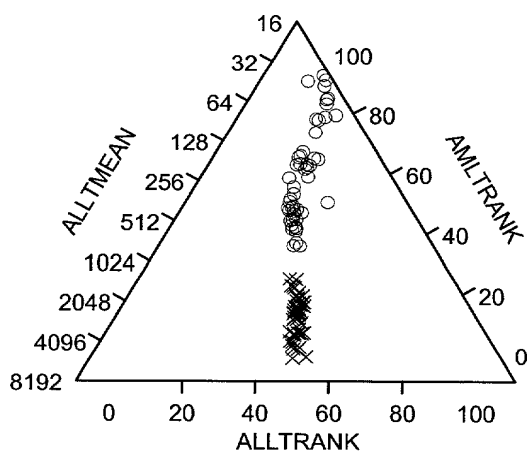
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Figure 4

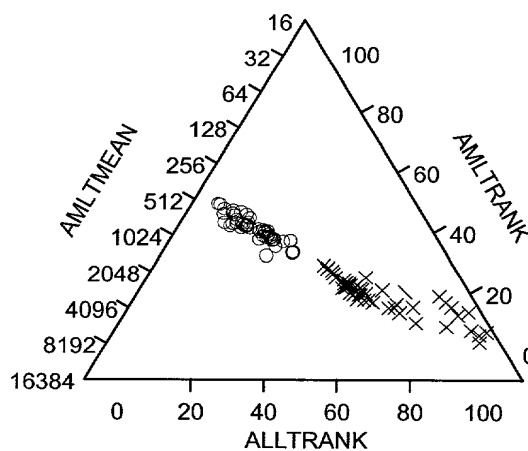
ALL vs. AML Model: Training Set

Model: $x = \text{IndexRank}$, $Y = \text{Contrast Rank}$



ALL Training Set Pattern

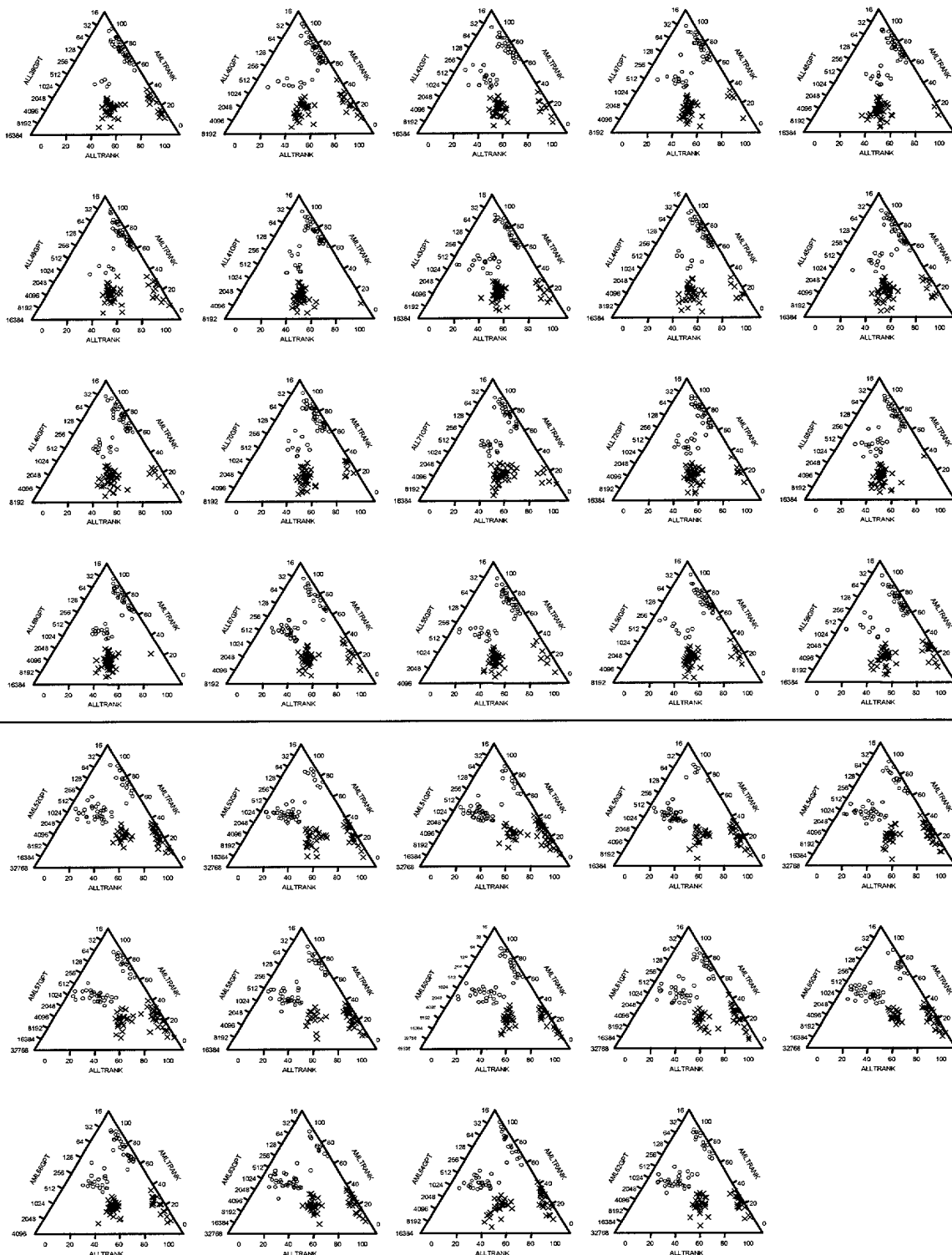
Mean of $n=27$



AML Training Set Pattern

Mean of $n=11$

ALL vs. AML New Test Cases
Model: x=IndexRank, Y=ContrastRank



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Breast Cancers: L-Type vs. H-Type

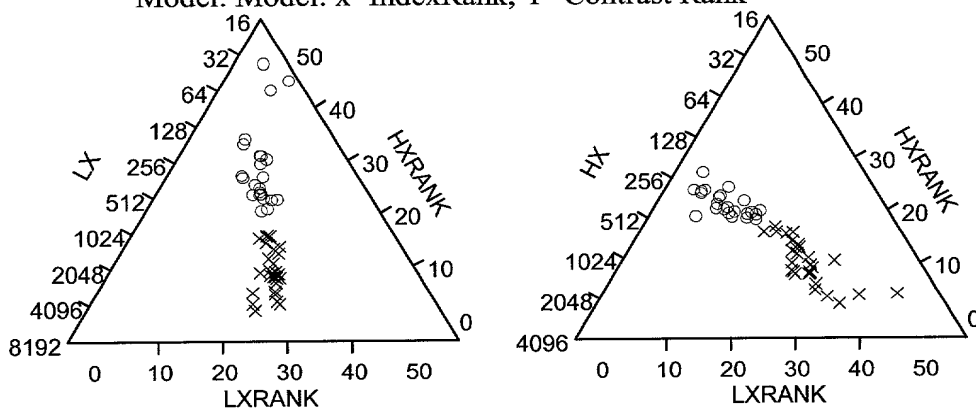
Figure 6

Model: Model: x =IndexRank, Y =Contrast Rank

11x12 Model:

L tumor Average (L)

H Tumor Average (R)



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Fig. 7
"FOT" 4504660

Probe	A	B	C	D	E	F	G	H	I	J	K	L
1	M13792 at	ALLTMean	AMLTMean	ALMTDIFPN	ALMTDIF	ALMTFold	ALMTTST	ALMTTRK	ALLTRANK	AMLTRANK	DIFFTRANK	COLORTS
2	M13792 at	6784.81	1743.36	-5041.45	5041.45	3.89	0.00001	55.00	100.00	77.00	1.00	blue
3	L06787_s at	6381.67	1960.73	-420.94	420.94	3.25	0.00020	121.00	99.00	81.00	2.00	blue
4	M92287 at	3829.30	274.00	-3555.30	3555.30	13.98	0.00000	26.00	94.00	37.00	3.00	blue
5	U05259_ma1 at	3467.26	20.00	-3447.26	3447.26	173.36	0.00001	43.00	93.00	4.00	4.00	blue
6	X59417 at	4361.37	1138.18	-3223.19	3223.19	3.63	0.00001	46.00	98.00	65.00	5.00	blue
7	U22376 cds2_s at	3863.30	673.73	-3189.57	3189.57	5.73	0.00000	19.00	95.00	55.00	6.00	blue
8	M11722 at	3022.07	134.91	-2887.16	2887.16	22.40	0.00000	16.00	92.00	25.00	7.00	blue
9	Z15115 at	4213.00	1365.27	-2847.73	2847.73	3.09	0.00001	45.00	87.00	72.00	8.00	blue
10	X03934 at	2878.67	55.45	-2823.21	2823.21	51.91	0.00007	93.00	91.00	16.00	9.00	blue
11	HG1612-HT1612 at	3871.67	1156.84	-2715.03	2715.03	3.35	0.00001	48.00	96.00	66.00	10.00	blue
12	X97267_ma1_s at	2389.63	386.36	-2003.27	2003.27	6.18	0.00001	49.00	90.00	45.00	11.00	blue
13	Z69881 at	2197.52	281.09	-1916.43	1916.43	7.82	0.00003	68.00	88.00	39.00	12.00	blue
14	M29698 at	2218.67	319.73	-1898.94	1898.94	6.94	0.00001	47.00	89.00	42.00	13.00	blue
15	M12959_s at	1844.48	241.45	-1603.03	1603.03	7.64	0.00004	71.00	86.00	34.00	14.00	blue
16	J04615 at	2020.89	439.73	-1581.16	1581.16	4.60	0.00000	18.00	87.00	49.00	15.00	blue
17	U32944 at	1704.56	292.73	-1411.83	1411.83	5.82	0.00021	124.00	85.00	40.00	16.00	blue
18	X74262 at	1411.19	253.00	-1158.19	1158.19	5.58	0.00003	67.00	83.00	36.00	17.00	blue
19	L47738 at	1230.15	80.27	-1149.88	1149.88	15.32	0.00000	13.00	79.00	18.00	18.00	blue
20	X62535 at	1105.85	20.00	-1085.85	1085.85	55.29	0.00000	17.00	77.00	1.00	19.00	blue
21	M31523 at	1310.59	238.91	-1071.68	1071.68	5.49	0.00001	56.00	81.00	33.00	20.00	blue
22	D86983 at	1077.89	20.00	-1057.89	1057.89	53.89	0.00001	44.00	76.00	5.00	21.00	blue
23	L05148 at	1055.96	20.00	-1035.96	1035.96	52.80	0.00020	118.00	74.00	7.00	22.00	blue
24	D26156_s at	1306.00	379.36	-926.64	926.64	3.44	0.00000	30.00	80.00	43.00	23.00	blue
25	U29175 at	1202.67	382.55	-820.12	820.12	3.14	0.00005	79.00	78.00	44.00	24.00	blue
26	U90552_s at	917.37	133.64	-783.73	783.73	6.86	0.00000	15.00	70.00	24.00	25.00	blue
27	J05243 at	860.63	125.55	-735.08	735.08	6.86	0.00000	23.00	68.00	22.00	26.00	blue
28	U97105 at	1009.22	276.45	-732.77	732.77	3.65	0.00009	97.00	73.00	38.00	27.00	blue
29	M91432 at	895.96	171.45	-724.51	724.51	5.23	0.00015	110.00	69.00	30.00	28.00	blue
30	X76648 at	930.37	245.73	-684.64	684.64	3.79	0.00002	62.00	71.00	35.00	29.00	blue
31	D14658 at	981.70	315.00	-666.70	666.70	3.12	0.00004	72.00	72.00	41.00	30.00	blue
32	M63830_s at	786.44	230.36	-556.08	556.08	3.41	0.00013	105.00	67.00	32.00	31.00	blue
33	U31814 at	669.52	149.09	-520.43	520.43	4.49	0.00011	100.00	65.00	28.00	32.00	blue
34	M31211_s at	538.15	45.45	-492.69	492.69	11.84	0.00000	5.00	62.00	15.00	33.00	blue
35	L00058 at	498.22	23.64	-474.59	474.59	21.08	0.00017	115.00	59.00	9.00	34.00	blue
36	U79274 at	625.07	165.55	-459.53	459.53	3.78	0.00009	96.00	64.00	29.00	35.00	blue
37	X22898 at	607.30	148.91	-458.39	458.39	4.08	0.00003	64.00	63.00	27.00	36.00	blue
38	X68560 at	518.74	145.82	-372.92	372.92	3.56	0.00013	106.00	61.00	26.00	37.00	blue
39	L07758 at	456.07	85.82	-370.26	370.26	5.31	0.00006	80.00	58.00	19.00	38.00	blue
40	L42572 at	428.00	89.64	-338.36	338.36	4.77	0.00005	89.00	56.00	20.00	39.00	blue
41	L41870 at	357.15	25.64	-331.51	331.51	13.93	0.00000	34.00	51.00	10.00	40.00	blue
42	U25435 at	419.00	102.18	-316.82	316.82	4.10	0.00006	85.00	55.00	21.00	41.00	blue
43	Y08612 at	359.30	44.73	-314.57	314.57	8.03	0.00001	42.00	52.00	14.00	42.00	blue
44	D83783 at	347.89	43.27	-304.62	304.62	8.04	0.00023	125.00	50.00	12.00	43.00	blue
45	D43948 at	369.37	65.18	-304.19	304.19	5.67	0.00006	83.00	53.00	17.00	44.00	blue

A	B	C	D	E	F	G	H	I	J	K	L
Probe	ALLTMean	AMLTMean	ALMTDIFPN	ALMTDIF	ALMTDIF	ALMTDIF	ALMTDIF	ALMTDIF	ALMTDIF	ALMTDIF	ALMTDIF
1 Probe											
46 S50223 at	323.26	39.73	-283.53	283.53	8.14	0.00020	122.00	47.00	11.00	45.00	blue
47 U79285 at	283.11	20.00	-263.11	263.11	14.16	0.00009	95.00	43.00	6.00	46.00	blue
48 D21262 at	255.63	20.00	-235.63	235.63	12.78	0.00000	35.00	42.00	3.00	47.00	blue
49 U49844 at	201.56	20.00	-181.56	181.56	10.08	0.00023	125.00	41.00	8.00	48.00	blue
50 M77142 at	200.11	20.00	-180.11	180.11	10.01	0.00000	29.00	39.00	2.00	49.00	blue
51 U28833 at	160.26	44.00	-116.26	116.26	3.64	0.00004	77.00	34.00	13.00	50.00	blue
52 X17848 at	28.37	133.18	104.81	104.81	4.69	0.00003	65.00	13.00	23.00	51.00	red
53 D49950 at	20.00	216.64	196.64	196.64	10.83	0.00000	4.00	1.00	31.00	52.00	red
54 U73960 at	88.19	447.09	358.91	358.91	5.07	0.00000	39.00	26.00	51.00	53.00	red
55 S76838 at	34.30	403.82	369.52	369.52	11.77	0.00005	80.00	14.00	47.00	54.00	red
56 M80254 at	43.96	420.36	376.40	376.40	9.56	0.00000	28.00	17.00	48.00	55.00	red
57 M31166 at	20.00	396.73	376.73	376.73	19.84	0.00000	12.00	3.00	46.00	56.00	red
58 X16665 at	91.48	480.91	389.43	389.43	5.26	0.00000	33.00	27.00	52.00	57.00	red
59 U05572 s at	20.00	445.73	425.73	425.73	22.28	0.00000	40.00	7.00	50.00	58.00	red
60 U41813 at	129.19	569.82	440.63	440.63	4.41	0.00001	58.00	30.00	53.00	59.00	red
61 X70297 at	36.56	662.45	625.90	625.90	18.12	0.00000	3.00	16.00	54.00	60.00	red
62 M54995 at	35.15	675.36	640.22	640.22	19.21	0.00000	9.00	15.00	57.00	61.00	red
63 M23197 at	57.33	708.82	651.48	651.48	12.36	0.00000	22.00	20.00	58.00	62.00	red
64 U61836 at	20.00	674.82	654.82	654.82	33.74	0.00000	20.00	4.00	56.00	63.00	red
65 D26579 at	109.41	794.27	684.87	684.87	7.26	0.00004	76.00	28.00	61.00	64.00	red
66 M83652 s at	20.00	766.36	746.36	746.36	38.32	0.00005	82.00	9.00	59.00	65.00	red
67 U41767 s at	20.00	766.45	746.45	746.45	38.32	0.00005	81.00	8.00	60.00	66.00	red
68 Y00339 s at	52.41	946.91	894.50	894.50	18.07	0.00004	73.00	19.00	62.00	67.00	red
69 M33493 s at	20.00	948.45	928.45	928.45	47.42	0.00006	86.00	10.00	63.00	68.00	red
70 HG2981-HT3127 s at	44.48	983.27	938.79	938.79	22.11	0.00000	24.00	18.00	64.00	69.00	red
71 X07743 at	150.15	1167.36	1017.22	1017.22	7.77	0.00001	51.00	32.00	67.00	70.00	red
72 U46499 at	182.48	1200.36	1017.88	1017.88	6.58	0.00000	10.00	37.00	69.00	71.00	red
73 M83667 rna1 s at	66.59	1195.82	1129.23	1129.23	17.96	0.00004	74.00	22.00	68.00	72.00	red
74 M81695 s at	307.04	1439.64	1132.60	1132.60	4.69	0.00002	61.00	45.00	73.00	73.00	red
75 Y12670 at	128.00	1294.45	1166.45	1166.45	10.11	0.00000	2.00	29.00	70.00	74.00	red
76 L42379 at	20.00	1302.64	1282.64	1282.64	65.13	0.00006	88.00	11.00	71.00	75.00	red
77 M19508 xpi3 s at	201.41	1551.00	1349.59	1349.59	7.70	0.00001	41.00	40.00	74.00	76.00	red
78 M33195 at	175.63	1577.00	1401.37	1401.37	8.98	0.00001	50.00	36.00	75.00	77.00	red
79 M16038 at	370.00	1811.64	1441.64	1441.64	4.90	0.00003	66.00	54.00	78.00	78.00	red
80 X85116 rna1 s at	308.63	1842.73	1534.10	1534.10	5.97	0.00001	57.00	46.00	79.00	79.00	red
81 M20203 s at	20.00	1581.91	1561.91	1561.91	79.10	0.00000	25.00	6.00	76.00	80.00	red
82 M95678 at	166.70	1911.27	1744.57	1744.57	11.47	0.00000	36.00	35.00	80.00	81.00	red
83 U02020 at	185.89	2155.45	1969.57	1969.57	11.60	0.00003	70.00	38.00	83.00	82.00	red
84 L09209 s at	513.48	2531.55	2018.06	2018.06	4.93	0.00006	84.00	60.00	86.00	83.00	red
85 M27783 s at	20.00	2042.36	2022.36	2022.36	102.12	0.00000	21.00	5.00	82.00	84.00	red
86 M30703 s at	27.19	2271.09	2243.91	2243.91	83.54	0.00003	63.00	12.00	84.00	85.00	red
87 D88422 at	66.11	2520.36	2454.25	2454.25	38.12	0.00000	1.00	21.00	85.00	86.00	red
88 M57731 s at	73.70	2586.36	2514.66	2514.66	35.12	0.00000	32.00	25.00	87.00	87.00	red
89 L08246 at	1066.56	3767.45	2700.90	2700.90	3.53	0.00000	31.00	75.00	90.00	88.00	red

Fig. 7

A		B		C		D		E		F		G		H		I		J		K		L	
ALLTMean		AMLTMean		ALMTDIFPN		ALMTDIFN		ALMTDIFN		ALMTDIFN		ALMTTST		ALMTTRK		ALLTRANK		AMLTRANK		DIFFRANK		COLOR	
1	Probe	68.37	2779.91	2711.54	2711.54	2711.54	2711.54	2711.54	2711.54	40.66	0.00000	8.00	24.00	88.00	89.00	89.00	red	89.00	red	89.00	red	89.00	red
90	X95735 at	20.00	3505.91	3485.91	3485.91	3485.91	3485.91	3485.91	3485.91	175.30	0.00000	7.00	2.00	89.00	90.00	91.00	red	91.00	red	91.00	red	91.00	red
91	M84526 at	304.93	4047.55	3742.62	3742.62	3742.62	3742.62	3742.62	3742.62	13.27	0.00005	78.00	44.00	92.00	92.00	92.00	red	92.00	red	92.00	red	92.00	red
92	X62320 at	333.19	4855.55	4522.36	4522.36	4522.36	4522.36	4522.36	4522.36	14.57	0.00003	69.00	48.00	94.00	94.00	94.00	red	94.00	red	94.00	red	94.00	red
93	M19507 at	453.22	5144.27	4691.05	4691.05	4691.05	4691.05	4691.05	4691.05	11.35	0.00000	37.00	57.00	93.00	93.00	93.00	red	93.00	red	93.00	red	93.00	red
94	M63138 at	135.59	4919.73	4784.13	4784.13	4784.13	4784.13	4784.13	4784.13	36.28	0.00002	60.00	31.00	98.00	98.00	98.00	red	98.00	red	98.00	red	98.00	red
95	J04990 at	1642.81	7108.73	5465.91	5465.91	5465.91	5465.91	5465.91	5465.91	4.96	0.00006	87.00	82.00	97.00	97.00	97.00	red	97.00	red	97.00	red	97.00	red
96	X17042 at	1398.74	6939.36	5540.62	5540.62	5540.62	5540.62	5540.62	5540.62	18.56	0.00000	14.00	49.00	95.00	95.00	95.00	red	95.00	red	95.00	red	95.00	red
97	X14008 ma1 f at	339.67	6304.82	5965.15	5965.15	5965.15	5965.15	5965.15	5965.15	102.18	0.00000	11.00	23.00	96.00	96.00	96.00	red	96.00	red	96.00	red	96.00	red
98	M28130 ma1 s at	57.26	6872.36	6805.10	6805.10	6805.10	6805.10	6805.10	6805.10	45.97	0.00000	6.00	33.00	99.00	99.00	99.00	red	99.00	red	99.00	red	99.00	red
99	M96326 ma1 at	159.41	7327.82	7168.41	7168.41	7168.41	7168.41	7168.41	7168.41	13.36	0.00000	27.00	66.00	100.00	100.00	100.00	red	100.00	red	100.00	red	100.00	red
100	M27891 at	784.63	10479.09	9694.46	9694.46	9694.46	9694.46	9694.46	9694.46														
101	Y00787 s at																						

Fig. 7

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